



- wings vioso 
- wings engine 
- wings touch 
- wings iobox 
- wings avio 



WINGS AV - ENGLISH



Wings AV

Wings has been on the market for more than 15 years. It started as a control system for multi-image shows with slide projectors and, over the years, has developed into one of the most powerful tools for large-scale projections - always focusing on intuitive operation and highest output quality.

Even very early on, external devices could be controlled bidirectionally. This was the first step towards interactivity. The hard- and software combination of the new Wings AV does not only allow integration of additional components but offers the opportunity to use virtually any type of input device for control purposes - via the new interface called Avio.

Be inspired by these new features and use Wings AV for every complex show. You just need one system - from video cutting to audio editing and from large-scale projection to show control - to put your ideas into practice.

Wings AV is the right tool to realize your visions: **Just add creativity!**



The Multi-Display Software

wings vioso 

High-Performance Media Server

wings engine 

Software for Creating Touch Interfaces

wings touch 

Hardware Modules as Interfaces for Various Signals

wings iobox 

One Protocol as Infrastructure for all Signals and Values

wings avio 



Wings Vioso - (Pre-)Production

Editing

Edit your media as you are used to from your video software. Change length, start and end position, include fades and cuts - all this is done in real time and in a completely non-destructive way.

Compositing

Images and videos can be arranged completely free in the screen. It just takes a few steps to create picture-in-picture displays and animations or to adjust croppings.

Realtime Effects

Finalize your presentation by using effects from the wide range of available effects. It is not only possible to influence color, contrast and brightness, but in applying artistic effects, such as blur and shader animations you can turn your media into a unique composition.

Various Media Formats

Use your favorite formats. Wings Vioso supports all video codecs installed on the Wings Engine and ensures highest-quality output. High-resolution image files (e.g. JPEG, PNG, Tiff) are displayed optimally even with alpha channel.

Working on a Virtual Screen

You can start producing your show on your own computer without the need of setting up the whole equipment. You program everything on a virtual screen. What you see on the screen corresponds in detail with the result on the projection surface - what you see is what you get!

Show Export

Want to send your customer a preview of your show? Just render a video file at the required resolution from the timeline.



© wizja.com.pl

Title Generator

Create texts, lower thirds or text animations in the Title Generator in just a few steps. Short-term modifications can be made instantly without requiring any new files to be rendered.

Picture Sequences

Wings Vioso allows playback of high-resolution picture sequences. This means highest levels in terms of quality in spite of combined access to the full range of editing, compositing and effect tools.

Unlimited Number of Tracks / Layers

Program your show at your own style. It's up to you to decide on the media and the number of tracks you want to use. Wings limits neither the number of tracks nor the number of objects on them. Various types of groups can be freely defined in order to accelerate editing and establish clear structures.

Warsaw's Palace of Culture

This year's international collegiate programming contest (ICPC), a competition between the world's best programmers, was held in Warsaw, Poland. The spectacular location was the Palace of Culture and Science.

WIZJA was in charge of creating the multimedia concept for this event. The huge half dome that builds the ceiling was the impressive and demanding projection surface. Twelve Panasonic PT-DZ21KU projectors, (2 double stacked at one time) were run by three AV Stumpfl media servers and aligned using Wings VIOSO's built-in auto-setup. Soft edge blending and individual projector's content handling was also handled that way. Using the extensive warping capabilities finally made the result fit to the ceiling's complex structure.

Besides the ceiling projection, the Wings master PC was responsible for the synchronization of the midi time code and other important devices which were important parts of this show: multichannel audio, DMX-controlled moving lights and a huge 3D projection with 4K resolution. The media server's playback wasn't impressed in spite of the complexity of this show, and played everything absolutely synchronously and smoothly.



Automatic Edge Blending and Warping

You won't want to trade this feature for anything - it will save you a lot of set-up time. Adjust the system to the projection surface within a couple of minutes using the camera-based auto setup.

Even with a high number of projectors you will be able to achieve a perfect image - especially on complex surfaces. Wings Vioso is going to simplify your day-to-day work and you will have more time available to focus on the contents.

Flexibility

Wings Vioso allows customer requirements to be met quickly and flexibly. Videos, texts and audio files can be exchanged in next to no time. Room for new objects in the timeline can be made or unnecessary gaps be closed without changing or jeopardizing the timing of your existing show. A video in the timeline can be replaced by dragging and dropping the new file directly onto the one to be replaced.



Camera based auto setup with Wings Vioso



User Interface Wings Vioso

Automatic Content Distribution

The number of servers in use does not matter. Editing is always done centrally on the master. At the push of a button the master automatically supplies the necessary content to the slaves and carries out frame-accurate synchronization.

Manual Edge Blending and Warping

Of course Wings Vioso also allows manual adjustment of overlapping areas and geometry corrections. Refine the grid during editing and take a step-by-step approach to achieve optimal correction. Save snapshots in a list so that you can undo certain steps if necessary.

Edit overlapping areas either globally or individually for every display in order to create invisible transition zones between your projectors' images.





Wings Vioso - Control & Connection

Interactivity

Experience the extensive options of interactivity. Use professional interactive input devices to ensure safe parameter control, but even consumer devices (e.g. Wii controllers or Kinect) can be used for reliable real time control.

DMX Recording and Playback

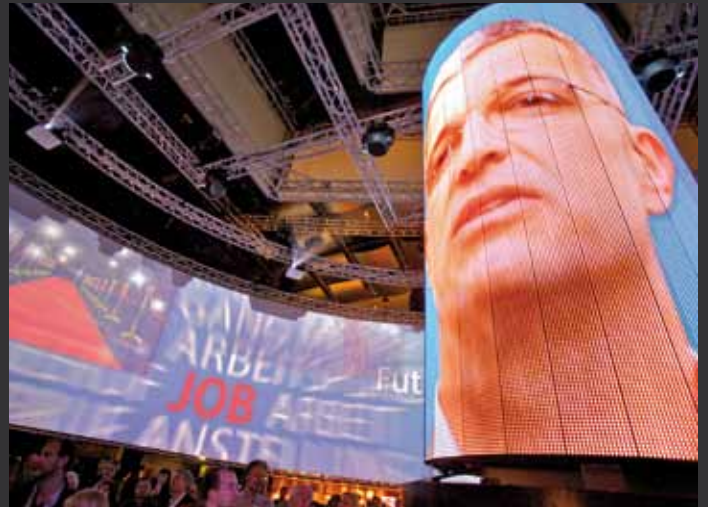
Wings Vioso is able to record DMX signals for later playback in order to achieve perfect synchronization of light with other show components.

Avio Integration

All variables and functions are directly visible in the Avio Manager. This allows all visible network nodes to be linked up directly with each other. It has never been easier to connect such a variety of different signals with each other.



New Track Fader in Wings Vioso



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External Show Control

Wings Vioso controls and can be controlled - simultaneously. While Wings Vioso can be used for controlling your projectors and the lights, it also receives start commands from a lighting console. At the same time, its fader controls allow direct access to other parameters, e.g. the transparency of a video track.

External Parameter Control

Due to the new variables Wings Vioso allows programming of dependencies, e.g. from values, logical functions and mathematical terms. You can, for instance, describe the movement of a falling object with a formula for gravitation and you will get a completely natural movement.

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Wings Vioso - Get your Show started



Live Player

The live player, accommodated in the track header, allows images and videos to be integrated in the running show - directly out of the Windows Explorer. This way you can easily test a variety of different alternatives during rehearsals. But even when your show has already been started, you are able to add or exchange files, without having to terminate the presentation mode.

Live Video

The Video Engine included in Wings Vioso has been completely revised. Now it gives you the chance to treat live videos just like any other video file and to play them in the same track or in the Live Player. Moreover, you can also use a frame doubler in order to make your camera images even smoother and appear sharper.



Full HD live Video at a concert

Live Fader

The track headers have been provided with live faders which give you access to various parameters even during the show. They can be used to change transparency, position, zoom factor and volume of media in operation. Thanks to the Avio protocol these parameters can be controlled via external devices (e.g. with the faders of a light panel).

Show Control Using Touch

The intuitive and fast connection of functions and parameters make Wings Vioso a perfect control interface. All the important functions of Wings Vioso can be directly connected in Avio Manager with buttons on the touch interface. However, you can also query states and activities, allowing you to ensure that your show is running smoothly.

Reliability

Over the years, Wings Vioso has proven to be a reliable tool both for smaller shows and for many large and complex events. Stability and high quality have always been the main focus in developing Wings Vioso.

Demo Version

Find out about Wings Vioso for yourself! The free demo version helps you to get a good impression of the functions and workflow of Wings Vioso. It offers nearly the entire range of functions for testing your requirements.

360° Projection for Canon Perspective 2012 at the Gasometer, Vienna

The visitors to the Canon Perspective at the Gasometer in Vienna find themselves surrounded by a circular screen. 8 Canon WUX4000 projectors project onto a 220m² projection surface. Each visitor became part of this event, part of Canon's world. As a truss construction a brilliant white 360° screen which has a circumference of 56m and a radius of 18m is already an impressive installation. But projected by high-quality Canon projectors and brilliant content what is seen becomes a unique experience.

You are immersed in wonderful urban and rural panoramas seen from new perspectives, e.g. St. Stephen's Cathedral filmed by Helmut Mitter. Füss AV programmed the exciting Wings Platinum show with this high-quality content. Together with some of our engineers, these complex large-scale projections were perfectly warped and installed using 4 media servers in order to meet the high demands of the public and of Canon's products.

To realize installations on this professional level, everything possibly needs to come from one source. Together with Füss AV we accepted this challenge and supported our partner with the 360° screen, servers, software and technical know-how.



Wings Engine

Customized Hardware

The new media server generation Wings Engine is distinguished by its extremely high-performance hardware and professional design. By means of intensive development and testing of various hardware components we have succeeded in making this server the perfect platform for demanding presentations.

Training Included

By buying a Wings Engine you will get the chance to receive individual product training at our headquarters in Wallern or at one of our partners. Find out about the basics of programming and efficient workflows. Edit your own projects and learn how they can be realized most effectively.



Wings Engine: Play/Install (top) and Stage (below)



© Christian Horn, 2011 www.horncolor.de

Wings Engine Play and Install

Ideal fields of application for these two engines are smaller shows and installations. The servers are equipped with optimal hardware for playback of high-resolution content. The price-performance-ratio is excellent and will convince you.

Wings Engine Stage

A special roadworthy case was developed for this engine. The sensitive hardware is accommodated in an extremely robust stainless steel case with anti-vibration mounts and is thus protected optimally even during tough life on tour. Professional Neutrik plugs also ensure secure plug-in connections. The 8.9" touch display enables rapid last-minute access. A clearly arranged user interface e.g. for a simple show start, can therefore be created on it.

A History of the World of Colors - 250 Years of Faber-Castell, Nürnberg

2500 invited guests are sitting in the Nuremberg Frankenhalle surrounded by an enormous 125 m wide U-shaped projection when the journey through time begins. Breathtaking animations were created for this extraordinary projection that makes the audience believe to be right in the center of the activity. The content was prepared in a way which allowed the 20 projectors (Sanyo XF-47) to display the images with a resolution of more than 16,000 pixels in width.

For this purpose, 6 AV Stumpfl media servers combined with Wings Vioso were used for softedge blending and warping. Publitec, who was responsible for the technical realization, used high-quality fiber-glass cables for the complex network of components. 13 channels of audio were supplied to the audio mixer (PM 5D) by Wings Platinum via ADAT. The live images of the speakers making their speeches were supplied via separate projectors and integrated via picture-in-picture into the overall projection.

SLD Mediatec, who was also responsible for the organization of the entire festivities, worked jointly with Christian Horn (Horncolor Multimedia GmbH) in the creative implementation of this highly demanding project. The technical know-how and the material supplied by Publitec and SD Mediatec produced a fascinating mix made of colors, images, sounds and the history of this very special company.



Play

- Up to 4 DVI outputs
- 4 RU 19" case
- 2 SSDs for OS and media files
- 6 64bit Intel cores

Install

- Up to 4 DVI outputs
- Up to 2 DVI inputs
- 4 RU 19" case
- 2 SSDs for OS and media files
- 6 64bit Intel cores

Stage

- Up to 4 DVI outputs
- Frame lock / Genlock
- Integrated EDID management
- Up to 2 DVI and 2 HD-SDI inputs
- 5 RU 19" custom case
- Shock proof
- Neutrik connectors
- 1 SSD for OS
- 2 SSDs configured as RAID 0 for media files
- 6 64bit Intel cores
- 8,9" touch display





Wings Touch

Simple Creation of Touch Interfaces

Wings Touch allows creation of interactive user interfaces for various applications in next to no time:

For Visitors or In-House Staff

Visitors are confronted with a clearly structured interface which allows them to retrieve information or start even complex shows. The reduction to a relatively low but well-arranged number of options means that even untrained people can select and start shows independently.

For Show Control

With just a few clicks the operator can create a user interface that is reduced to show-relevant options. In addition to buttons for triggering scenes and cues, status displays can be arranged in a way which allows the most important devices to be permanently monitored. This makes controlling and monitoring much easier and safer.



User Interface Wings Touch

Dynamic Page Transitions

A good user interface has a modern layout and well-designed page transitions. For this a wide choice of graphic elements, such as 3-D rotations for page transitions, background videos and interactive objects is available.

Direct Avio Connection

Wings Touch is visualized as a separate node in the Avio Manager. Therefore, you can link up objects on the touch interface directly with other nodes, e.g. a Wings IObox or Wings Vioso, via drag & drop and assign values, functions or status messages to them.

Intuitive Operation

For fast creation of clearly-designed touch interfaces Wings Touch offers the same user friendliness you are used to from current Office applications. In the fastest possible time, Wings Touch allows you to program exactly those user interfaces that you need.

Appealing User Interfaces

Use your company's CI (logos, font, colors) designing the interactive user interfaces. These settings can be applied to all objects, such as buttons or text fields. Moreover, you can choose a static background with images or a dynamic one, using video or picture transitions. Refine the optical appearance by adding graphic elements and effects, such as shadows, luminous effects or transparency of objects.





Intelligent Hardware Modules

The Wings IObox is an intelligent hardware module which visualizes every input and output channel in the Avio Manager and makes them available for connection.

Backup on SD Card

All settings are stored on an SD card by the Wings IObox which allows them to be transferred directly later on. If a device needs to be replaced, thanks to the information on the SD card the Wings IObox can immediately be set up correctly and is ready for further use.

Software Simulation

When programming complex network structures it is not always possible to connect all the components during the preparatory phase. It is therefore possible to software-simulate every module so it only needs to be connected later on.



Front view Wings IObox



© EMF, Roshen Confectionery www.emfactory.com

Modules for Different Signals

Currently, the following modules are available:

- Wings IOBox DMX - input and an output for DMX 512 channels
- Wings IObox Relay - 16 switch outputs
- Wings IObox Remote – 16 digital inputs
- Wings IObox Serial – 4 RS232 interfaces

The range of Wings IOboxes is constantly being extended. Please contact us if you are using a signal that has not been listed yet.

Decentralized Access

Just as any other node in the Avio Manager the Wings IOboxes can be accessed via a web browser, too. All channels and status displays can be checked and modified via webview. This turns your mobile phone, laptop or tablet PC into a control display for your Wings IObox.

Europe's Largest Floating Multimedia Fountain System

Emotion Media Factory Laserland (EMF) completes Europe's largest floating fountain system in the Ukrainian city of Vinnitsa for the Roshen Confectionery Group. Each evening a 25-minute-long thrilling story is told featuring water, music, laser, light and colors. It claims to be a show for young and old which can be understood without language and which arouses the feelings of the spectators.

Colored fountains of water spout up to 70 m up into the sky. A 50 m wide and 18 m high screen of water acts as the projection surface for the story which has been composed and produced by EMF. High performance video systems project seemingly three-dimensional images in brilliant colors onto the water screen with a power of 30,000 ANSI-Lumen.

The system rests on a 96 meter long and 7 meter wide, 150 ton pontoon in the middle of a branch of the River Bug. The synchronization and programming of the controls of the complex water jets as well as light, laser, multichannel sound and soft edge projection were carried out using two AV Stumpfl media servers and Wings Vioso. The different shows can be started by staff using the easy-to-handle user interface on a touch panel.



Wings Avio

The Protocol

Wings Avio is a network protocol which has been developed especially for the requirements of the event industry with regard to realtime capability, reliability and usability. It is the infrastructure of the Wings AV System.

Avio Manager

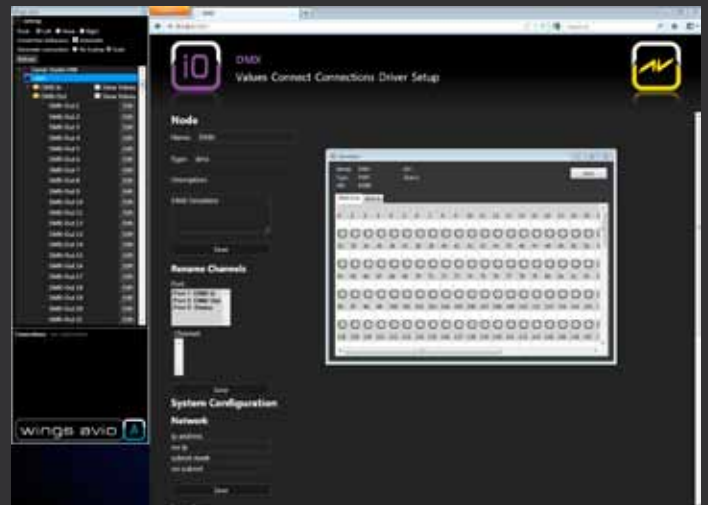
Based on the Avio protocol almost every device can be visualized in Avio Manager and connected to other nodes via drag & drop. Since even software nodes, e.g. functions and variables from Wings Vioso and buttons from Wings Touch are displayed as nodes in Avio Manager, they can be connected to each other easily and directly.

Decentralized

It has never been easier to manage and monitor a complex network that combines different signal sources in a completely decentralized way. The properties of every node can be visualized and modified in a browser window. Even mobile devices, e.g. mobile phones or tablets, can get access to all components via this web interface. This decentralized architecture improves system stability since all components communicate directly and can act independently of each other.

System Backup

Complex network setups can be saved in a single file. They can be used as backup on the one hand and facilitate the setup of frequently changing shows (e.g. in theaters) on the other, since they can be restored in next to no time.



Wings Avio Manager | Wings Avio-Web Interface | Wings IObox-Simulation tool

Device-Independent

Nearly every device with a LAN or serial interface can be integrated into the Avio network via the corresponding driver. E.g. projectors can be controlled by linking them up with Wings Vioso or Wings Touch. Read out status displays that are logically connected with other functions via mathematical formulas (e.g. the presentation starts only when the projector has started up correctly) in order to increase system reliability.

User Friendliness

The idea behind Avio Manager is to make complex structures operable by allowing easy and decentralized management of all nodes. Various functions, such as drag&drop, graphic network display or grouping allow you to keep an overview of the numerous sources and work fast and effectively.

FC Bayern Erlebniswelt, Munich

The record champion has expanded the Allianz Arena to include a 3,050 m² adventure installation. 500 original exhibits tell the 112 year history of FC Bayern Munich. Victories, players, coaches and fans as well as defeats, all of which are part of the history of Germany's most successful soccer club, have their own place here.

Together with Wilhelm & Willhalm GmbH - event technology, we provided the equipment for this „Erlebniswelt“ and took over the complex programming. Our entire portfolio can be found here. From the classic projection screen to elaborate projection and controlling technology, interactive programming and a central media control system which takes over the power management and connects the media technology to the security technology. 11 AV Stumpfl media servers with Wings Platinum and Wings Vioso, 36 HD players, touch interfaces and the latest development the Wings IOboxes were used in this installation to create this multimedia world of experience.

Other European clubs already have museums in their home stadiums as well to present themselves. But FC Bayern Munich did not just want to display exhibits but wanted to give the fans a chance to take part interactively in the club's history, to experience the club's history at close quarters.



Everything From a Single Source

AV Stumpfl is not only a specialist for media technology but also a manufacturer of high-quality projection screens for mobile and stationary use at its headquarters in Austria. A perfect projection requires perfect projectors - we can also advise you in the choice of suitable projectors for your project. Benefit from our close cooperation with renowned producers of professional projectors (Canon, JVC, Panasonic, Sony,...).

Project Planning and Consultancy

Draw on our long years of experience in planning your project. Tell us about your ideas - we are more than willing to advise you in order to find a perfect solution. Get a good impression of the various ways your ideas can be put into practice at our headquarters in Wallern. Our staff will try to help you find solutions that are tailored to meet your requirements.



Get in touch with us: Our support and sales team



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Training

Safe handling of your own equipment is essential for a successful show. This is why the purchase of a Wings Engine comes with free and individual product training at our headquarters in Wallern or at one of our certified partners. In addition to this you will have the chance to attend specialized training to extend your knowledge in the corresponding fields even further.

Support Packages

On demand, we can offer you various support packages which also allow you to contact us also in the evening and at the weekend in case you need assistance.





Technical Specification



Wings IObox General Specification

- 10/100 Mbit RJ45 ethernet connection with power over ethernet
- Alternative power supply: 12V, max. 1A
- Size 137x98x34mm (LxWxH)
- LEDs for visual feedback



Wings IObox DMX

- 1 DMX 512 input
- 1 DMX 512 output
- 3 pin XLR connectors



Wings IObox Remote

- 16 digital inputs



Wings IObox Relay

- 16 relay switching outputs (30VDC, 48VAC, 1,5A)



Wings IObox Serial

- 4 RS232 connectors



Technical Specification



Wings Engine



Features	Play Dual	Install Dual	Stage Dual	Play Quad	Install Quad	Stage Quad
DVI outputs	2	2	2	4	4	4
Frame lock / Genlock	—	—	✓	—	—	✓
Integrated EDID management	—	—	✓	—	—	✓
Intel based 64 Bit multidisplay video server	6 Cores	6 Cores	6 Cores	6 Cores	6 Cores	6 Cores
RAM	8GB	8GB	8GB	8GB	8GB	8GB
Additional DVI output for control display	✓	✓	✓	✓	✓	✓
Front touch display 8,9" with 1024x600 pixels	—	—	✓	—	—	✓
DVI video grabbing	—	1	1	—	2	2
HD-SDI video grabbing	—	—	1	—	—	2
Solid state disk for operating system	60GB	60GB	60GB	60GB	60GB	60GB
Solid state disk for media files	240GB	240GB	480GB,RAID 0	240GB	240GB	480GB,RAID 0
Media disc bit rate	450 MB/s	450 MB/s	900 MB/s	450 MB/s	450 MB/s	900 MB/s
Symmetric audio outputs	2	2	2	2	2	2
USB 3.0 Ports	✓	✓	✓	✓	✓	✓
Firewire 400 IEEE1394	✓	✓	✓	✓	✓	✓
19" case	4 RU	4 RU	5 RU	4 RU	4 RU	5 RU
Shock proof	—	—	✓	—	—	✓
Weight	ca. 20 kg	ca. 20 kg	ca. 27 kg	ca. 20 kg	ca. 20 kg	ca. 27 kg
Size (LxWxH, all dimensions in mm)	545x488x177	545x488x177	673x484x221	545x488x177	545x488x177	673x484x221
Included Software licences						
Wings Vioso	2	2	2	4	4	4
Wings Touch	✓	✓	✓	✓	✓	✓
Avio Manager/ Avio Service	✓	✓	✓	✓	✓	✓
Show Control	✓	✓	✓	✓	✓	✓
Product training	✓	✓	✓	✓	✓	✓

Mobile and Stationary Projection Screens by AV Stumpf

Our projection screens are distinguished all over the world for their well thought-out design, their functionality and long life - Quality made in Austria.

Our Monoblox and Vario series projection screens are particularly well suited for touring and as hire equipment. They are characterized by a very compact transport size while at the same time the high-quality materials are extremely stable and light-weight. All Vario series frames are customized and fitted with suitable screen material.

Ask for customized projection screens for your presentations. Unconventional demands are welcome - we produce the appropriate construction for you, e.g. curved screens made of Vario profiles. For a projection screen with a unique aesthetic appearance will turn your images and videos into a real highlight.

A passion for detail.
Perfectly implemented.
With more than 35 years of experience and know how.

AV Stumpfl, Headquarters, Austria



National and international awards:



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